

POM Compounds Listed by EPA and DNR (Also available as an Excel table, Oct. 2001)

<u>Compound</u>	<u>CAS No.</u>	<u>DNR Chs.</u>
16 Polycyclic Aromatic Hydrocarbon (PAHs) designated by EPA as compounds of interest (listed in Seitz Aug. 2000 memo ¹):		
Acenaphthene	83-32-9	(great lakes chemical ²)
Acenaphthylene	208-96-8	(great lakes chemical ²)
Anthracene	120-12-7	(great lakes chemical ²)
Benz[a]anthracene ⁵	56-55-3	NR 407, 438, 445(3B)
Benzo[b]fluoranthene ⁵	205-99-2	NR 407, 438, 445(3B)
Benzo[k]fluoranthene	207-08-9	(proposed 3B)
Benzo[g,h,i]perylene	191-24-2	(great lakes chemical ²)
Benzo[a]pyrene ⁵	50-32-8	NR 407, 438, 445(3B)
Chrysene (Benzo[a]phenanthrene) ⁵	218-01-9	NR 438
Dibenz[a,h]anthracene ⁵	53-70-3	NR 407, 438, 445(3B)
Fluoranthene (Benzo[j,k]fluorene)	206-44-0	NR 438
Fluorene	86-73-7	(great lakes chemical ²)
Indeno[1,2,3-c,d]pyrene ⁵	193-39-5	NR 407, 438, 445(3B)
Naphthalene³	91-20-3	NR 407, 438, 445(1)
Phenanthrene	85-01-8	(great lakes chemical ²)
Pyrene	129-00-0	(great lakes chemical ²)

Other POMs that meet the criteria listed in footnote 4 of CAA section 112(b)(1), from Seitz Aug. 2000 memo:

2-Acetylaminofluorene	53-96-3	NR 407, 438
4-Aminobiphenyl	92-67-1	NR 407, 438, 445(3A)
Benzidine	92-87-5	NR 407, 438, 445(3A)
Biphenyl³	92-52-4	NR 407, 438, 445(1)
Carbaryl	63-25-2	NR 407, 438, 445(2)
Chlorobenzilate	510-15-6	NR 407, 438
DDE	72-55-9	NR 407, 438
Dibenzofuran	132-64-9	
Dibenzofurans	-----	NR 407, 438
3,3-Dichlorobenzidine	91-94-1	NR 407, 438, 445(3B)
3,3-Dimethoxybenzidine	119-90-4	NR 407, 438, 445(3B)
3,3'-Dimethylbenzidine	119-93-7	NR 407, 438, 445(3B)
4,4-Methylene bis(2-chloroaniline)	101-14-4	NR 407, 438, 445(3B)
Methylene diphenyl diisocyanate (MDI)	101-68-8	NR 407, 438, 445(1)
4-Nitrobiphenyl	92-93-3	NR 407, 438
Quinoline	91-22-5	NR 407, 438
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	NR 407, 438, 445(3B)

Other POMs from the "more predominantly identified and studied POM compounds" in Fig. 3-1 of LOCATING AND ESTIMATING AIR EMISSIONS FROM SOURCES OF POLYCYCLIC ORGANIC MATTER, EPA-454/R-98-014, July 1998:

Anthanthrene	191-26-4	
Benzo[e]acenaphthylene	(none found)	
Benzofluoranthene	-----	
Benzo[g,h,i]fluoranthene	203-12-3	
Benzo[j,j]fluoranthene	205-82-3	(proposed 3B)
Benzo[e]pyrene	192-97-2	
Coronene	191-07-1	
Cyclopenta[cd]pyrene	27208-37-3	
Perylene	198-55-0	(great lakes chemical ²)

POMs listed in footnote b of Table 5 in ch. NR 465 and not otherwise listed above:

Benz[c]acridine ⁵	225-51-4	
7,12-Dimethylbenz[a]anthracene ⁵	57-97-6	
Dibenzo[a,i]pyrene ^{4,5}	189-55-9	NR 407, 438, 445(3B)

The remaining compounds (not listed above) in the list of 10 POMs in Table 3 of ch. NR 445:

Dibenz[a,h]acridine	226-36-8	NR 407, 438, 445(3B)
Dibenz[a,j]acridine	224-42-0	NR 407, 438, 445(3B)
7H-Dibenzo[c,g]carbazole	194-59-2	NR 407, 438, 445(3B)
Dibenzo[a,h]pyrene	189-64-0	NR 407, 438, 445(3B)

TRI reporting requirements (March 2001) list 21 polycyclic aromatic compounds (PACs) of which the following are not listed above:

Dibenzo(a,e)fluoranthene	5385-75-1
Dibenzo(a,e)pyrene	192-65-4
Dibenzo(a,l)pyrene	191-30-0
3-Methylcholanthrene	56-49-5
5-Methylchrysene	3697-24-3
1-Nitropyrene	5522-43-0

TRI reporting requirements list 17 dioxin and dioxin-like compounds of which only the last is listed above:

1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6 (listed above)

¹ Memo giving "Guidance on the Major Source Determination for Certain Hazardous Air Pollutants" from John S. Seitz, Director of EPA Office of Air Quality Planning and Standards, Aug. 14, 2000, posted at <http://www.epa.gov/ttn/atw/agghapsmemo3.html>.

² These target compounds in the Great Lakes Regional Air Toxic Emissions Inventory Project which are not currently regulated by name under ch. NR 407, 438 or 445, and which are not proposed to be regulated under state air rules as of Oct. 2001.

³ Individual sources have occasionally reported more than 10 tons of emissions of these compounds to the EI or to TRI.

⁴ This compound is listed in the ch. NR 465 Table 5 footnote as 1,2:7,8-dibenzopyrene.

⁵ These 9 compounds are listed in footnote b of Table 5 in ch. NR 465 as excluded POMs for the purposes of that table.